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(54) PNEUMATIC CARRYING METHOD FOR BULK MATERIAL

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**PURPOSE:** To simplify the structure, to improve general usage and to prevent fault by sucking bulk material from a yard and accumulating the bulk material in a covered hopper, thereafter falling the bulk material into a pressure tank and feeding pressure air into the pressure tank in order to take out the bulk material from the tank, and repeating the cycle.

**CONSTITUTION:** Air is sucked from a hopper 1 through a pneumatic pump 3 and a suction pipe 4 in order to accumulate bulk material through the suction pipe 4b into the hopper 1. When the bulk material in the hopper 1 reaches to a predetermined height, an upper limit level gauge 9 functions to open the bottom valve 8 of the hopper 1 thus sucking the outer air through a three-way valve 11 and falling the powder material down into a pressure tank 2. When the bulk material falls down entirely, the valve 8 closes. Consequently, suction of the bulk material is resumed and a discharge three-way valve 12 functions to lead the discharge gas into the pressure tank 2 and carry the bulk material from the pressure tank 2 through a carrying pipe 6. By such arrangement, the bulk material can be carried through simple structure with no fault and general usage can be improved.

